

This paper focuses on the effect of anode fabrication on essential performance parameters such as capacitance, energy density, and power density in supercapacitors. It also looks at how to increase ...

Hexagonal boron nitride (h-BN) thin films have shown promising performance as separators in supercapacitor devices due to their electrically insulative character and high ionic ...

Used as a lubricant and an additive to cosmetic products. Boron nitride has potential use in nanotechnology. Also used in paints, dental cements, pencil leads, xerographic process and laser ...

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Boron nitride (BN) has shown great potential for microelectronics in the architecture of micro-supercapacitors. Boron Nitride has a large bandgap (5.5eV), superior thermal stability, and ...

In our study, the integration of functionalized hexagonal boron nitride (Fh-BN) into both the electrode and electrolyte of flexible solid-state supercapacitors has demonstrated significant ...

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Flexible All-Solid-State Supercapacitor Based on Carbon- Supported Ni-Embedded Boron Nitride Ca oline at Greensboro,

We introduce 2D heterojunction hybrid supercapacitors integrating iron-doped boron nitride (Fe-BN) electrodes with PANI. This Fe-BN/PANI hybrid shows excellent stability under ...

The progress on these BN-based materials applied in electrochemical ESC devices, such as supercapacitor, batteries, electrocatalytic water splitting, CO₂ RR and NRR, fuel cells, and solar ...

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